



深圳市博格斯通信技术有限公司

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Applicable to N92 project WiFi/GPS/Bluetooth antenna solution

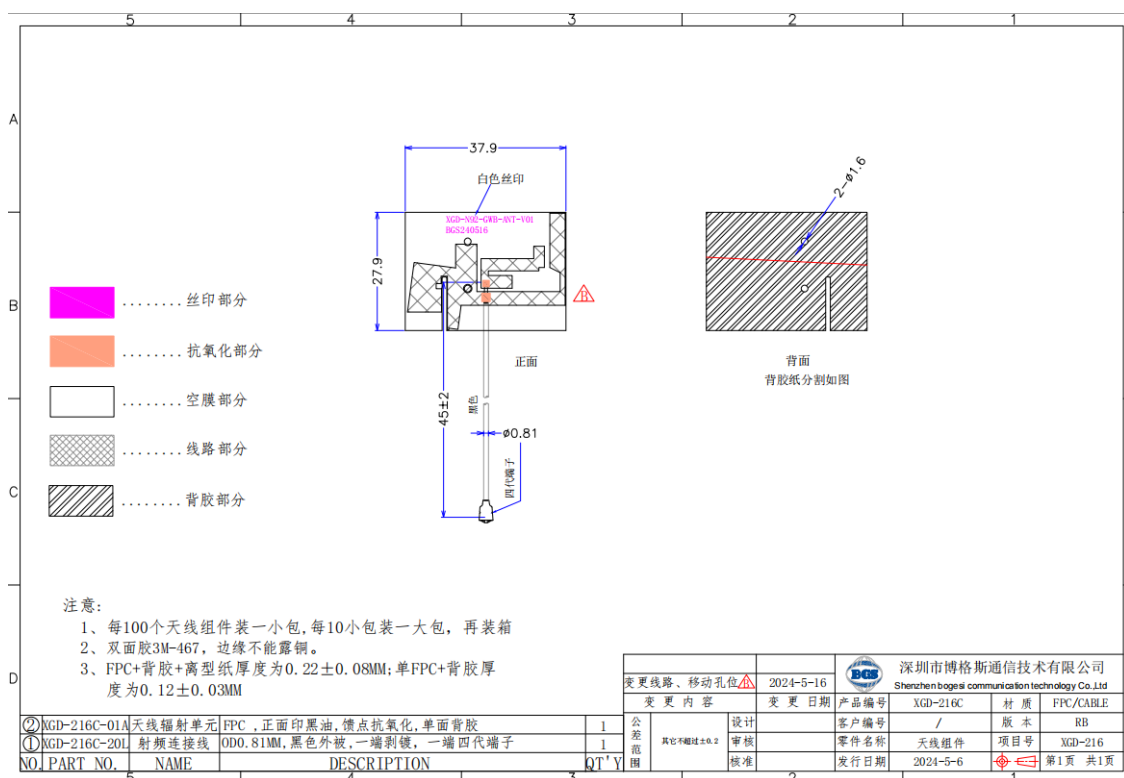
Electrical Specifications:

Frequency Band	WIFI/GPS/Bluetooth	The Antenna Material	FPC+cable+ipex4
Nominal Impedance	50 Ω	Antenna Connection Mode	ipex4
VSWR	≤ 3.0	Working Temperature	-40℃~+85℃
Peak Gain	1575MHz:-0.47dBi	Keep The Temperature	+19℃~+23℃
	2400-2500MHz: 1.83dBi	Polarization	Linear Polarization
	5150-5850MHz: 4.75dBi		

Test Conditions And Methods:

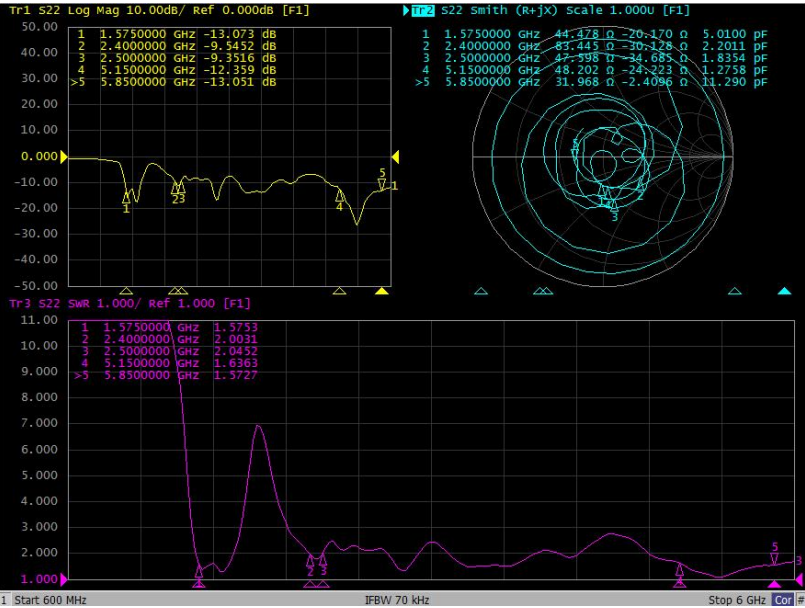
Test Instruments	Test Method	Test Result
7*4*3 microwave darkroom E5071B network analyzer	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report

Antenna Drawing:



Passive performance test parameters

Frequency (MHz)	1575	2400	2500
VSWR	1.57	2	2.04
Frequency (MHz)	5150	5850	
VSWR	1.63	1.57	

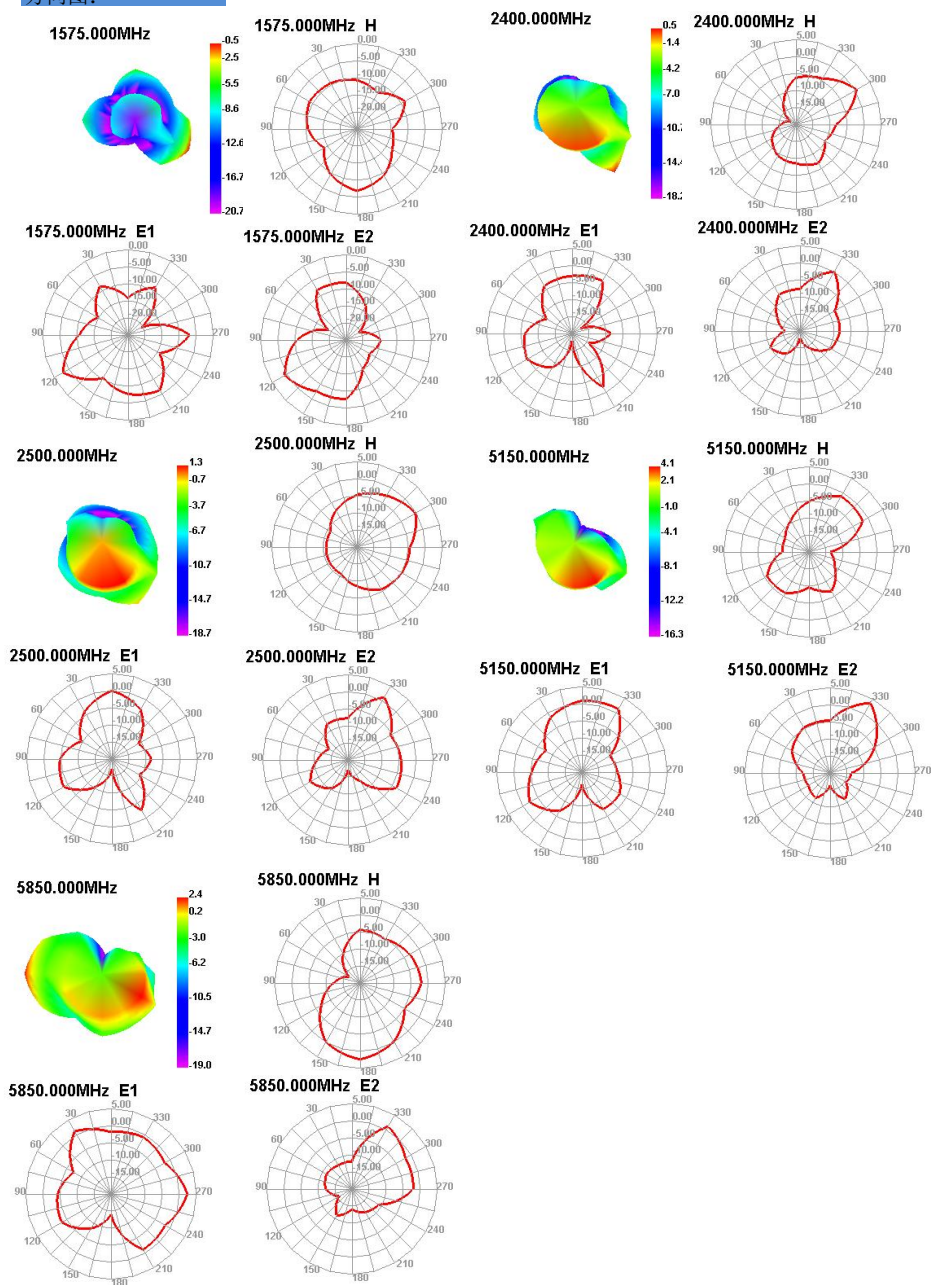


antenna passive data:

Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)
1560	34.85	-0.35	5160	42.92	4.15	5510	51.56	3.21
1561	34.7	-0.37	5170	43.66	4.28	5520	53.04	3.38
1562	34.69	-0.37	5180	44.3	4.14	5530	51.21	3.22
1563	34.8	-0.32	5190	45.19	4.35	5540	50.5	3.14
1564	35.01	-0.25	5200	45.86	4.43	5550	49.66	3.16
1565	35.23	-0.21	5210	47.28	4.61	5560	50.7	3.19
1566	35.39	-0.19	5220	47.23	4.56	5570	50.31	3.15
1567	35.46	-0.18	5230	48.76	4.75	5580	51.61	3
1568	35.32	-0.21	5240	46.54	4.69	5590	50.94	3.17
1569	35.04	-0.28	5250	48.11	4.61	5600	48.2	2.89
1570	34.68	-0.39	5260	48.08	4.53	5610	49.02	2.75
1571	34.38	-0.41	5270	47.37	4.4	5620	48.6	2.69
1572	34.16	-0.44	5280	48.58	4.5	5630	50.02	2.65
1573	34.04	-0.44	5290	47.93	4.38	5640	49.81	2.9
1574	33.99	-0.47	5300	49.99	4.47	5650	51.38	2.89
1575	34	-0.47	5310	49.31	4.55	5660	51.81	3.09
1576	33.99	-0.52	5320	51.64	4.58	5670	49.45	2.86
1577	33.96	-0.54	5330	51.89	4.54	5680	50.94	2.88
1578	33.87	-0.64	5340	54.24	4.56	5690	51.11	3.09
1579	33.7	-0.74	5350	53.43	4.46	5700	52.1	3.27
1580	33.45	-0.85	5360	51.43	4.65	5710	50.19	3.49
			5370	54.18	4.62	5720	50.76	3.39
2400	41.86	0.5	5380	53.12	4.54	5730	51.83	3.44
2410	45.26	1.23	5390	53.99	4.47	5740	50.2	3.05
2420	46.01	1.27	5400	53.26	4.39	5750	50.55	2.95
2430	48.14	1.55	5410	53.51	4.38	5760	50.35	3.07
2440	48.56	1.72	5420	52.58	4.31	5770	51.72	3.18
2450	48.84	1.83	5430	50.72	4.07	5780	50.28	3.4
2460	47.84	1.72	5440	50.76	3.81	5790	49.86	3.08
2470	47.38	1.6	5450	50.4	3.8	5800	52.5	3.05
2480	49.68	1.78	5460	50.27	3.73	5810	52.13	2.81
2490	50.01	1.67	5470	50.29	3.81	5820	53.4	2.75
2500	48.85	1.33	5480	48.64	3.85	5830	51.61	2.68
			5490	47.66	3.58	5840	53.4	2.66
5150	42.72	4.11	5500	51.36	3.59	5850	50.03	2.39

Directional diagram

方向图:



Picture of machine

